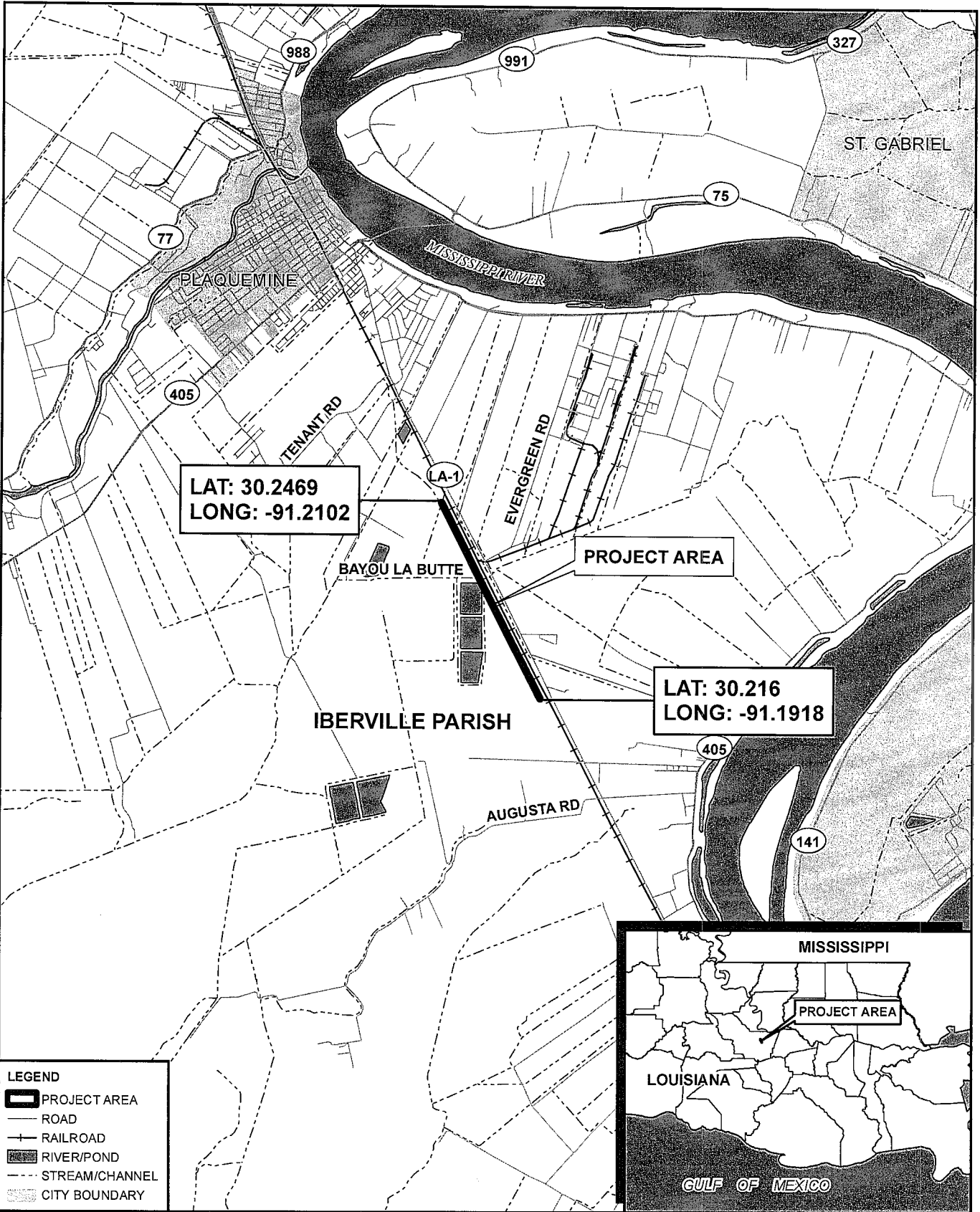
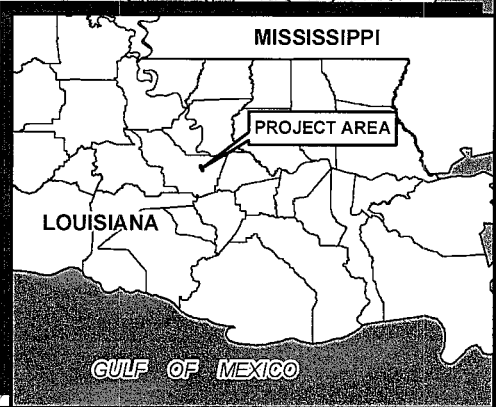


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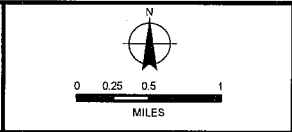


**LEGEND**

- PROJECT AREA
- ROAD
- RAILROAD
- RIVER/POND
- STREAM/CHANNEL
- CITY BOUNDARY



**PLAQUEMINE MAINLINE REALIGNMENT**  
VICINITY MAP

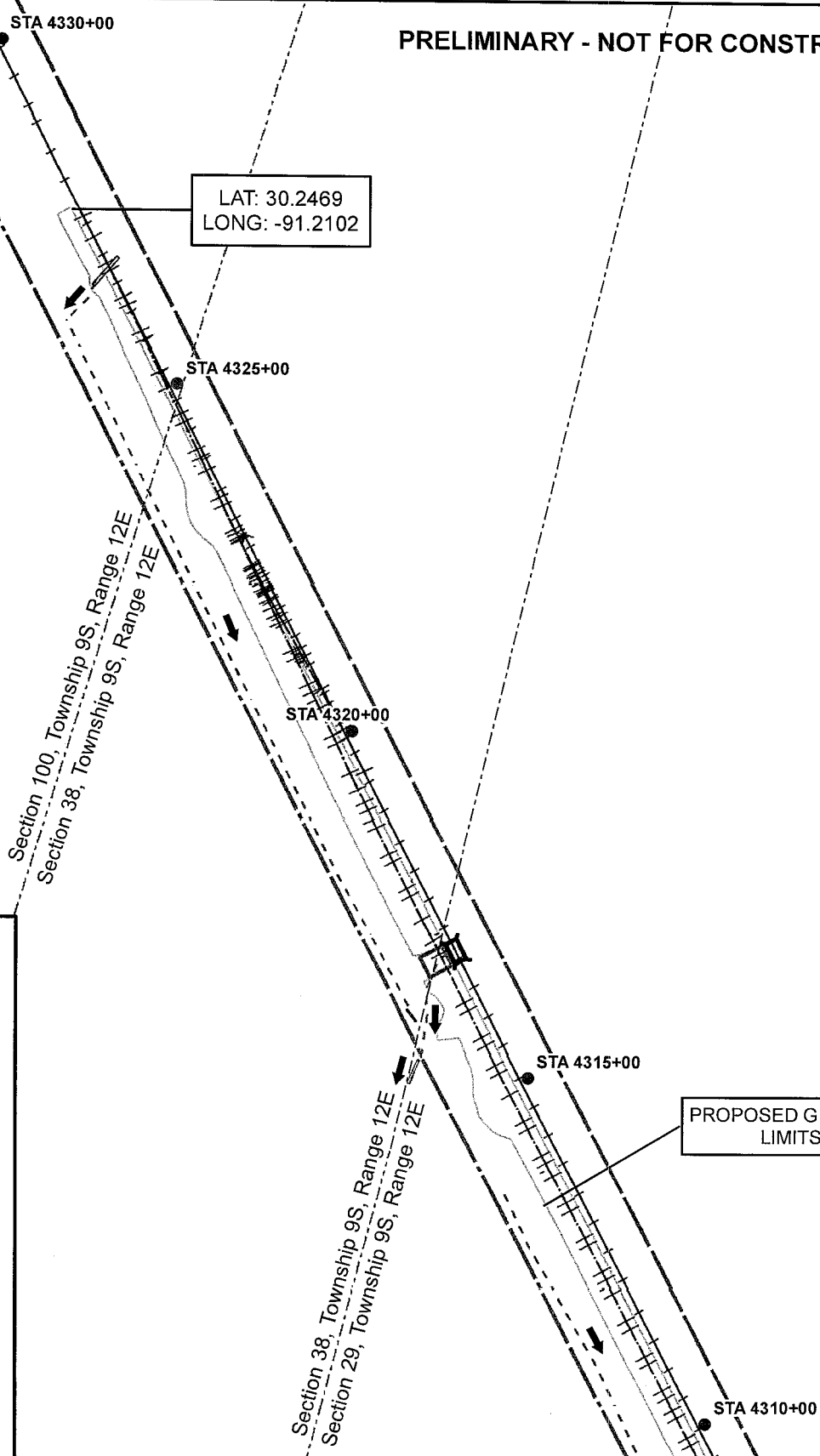


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DALLAS, TX 75248-1232  
972-960-4400

DEC 2011      SHEET 1 OF 23

PRELIMINARY - NOT FOR CONSTRUCTION

LAT: 30.2469  
LONG: -91.2102



**LEGEND**

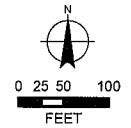
**NOT WATERS OF THE U.S.**

- STATION NUMBER LOCATION
- ↑ DIRECTION OF FLOW
- PROPOSED GRADING LIMITS
- EXISTING TRACK
- +— PROPOSED TRACK
- - - EXISTING RIGHT-OF-WAY
- - - PROPOSED RIGHT-OF-WAY
- +— EXISTING CULVERTS
- +— PROPOSED CULVERTS
- ▭ EXISTING BRIDGE
- ▭ PROPOSED BRIDGE
- ▭ HIGH BANK
- ▭ LOW BANK
- - - EXISTING DITCH
- - - PROPOSED DITCH
- - - SECTION LINES

**WATERS OF THE U.S.**

- +— STREAM
- ▨ FORESTED WETLAND
- ▨ NON-FORESTED WETLAND
- ▨ WETLAND IMPACT

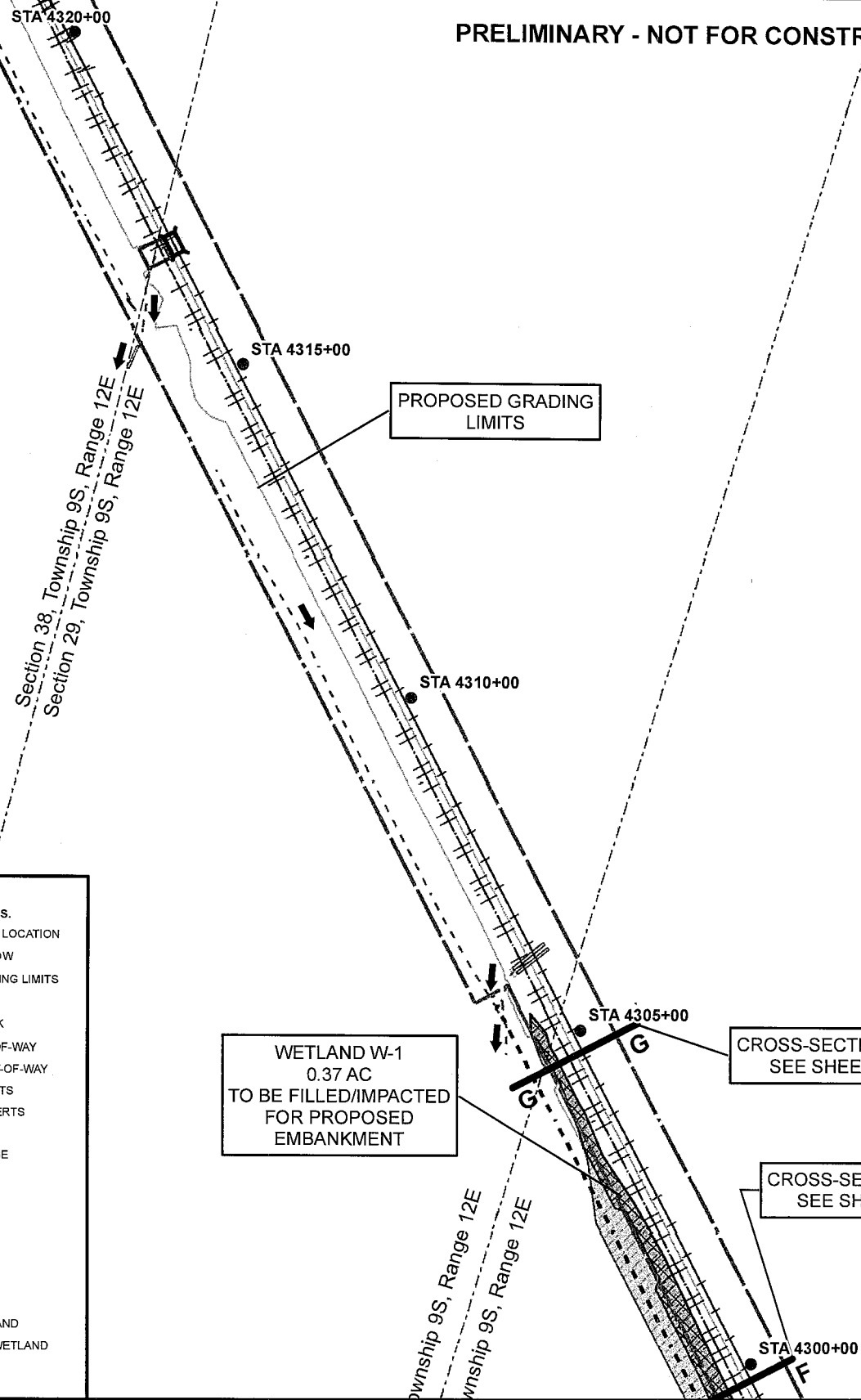
**PLAQUEMINE MAINLINE  
REALIGNMENT  
DESIGN EXHIBITS**



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Dallas, TX 75240-1232  
972-960-4400

Path: O:\Dept\037\_DallasEngineering\Env\Sciences\168567-134\_UPRR\_Plaquemine\_ML\_Realignment\MapDocs\arcmap\Plaquemine\_RR\_USACE\_8x11.mxd

PRELIMINARY - NOT FOR CONSTRUCTION



**LEGEND**

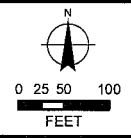
**NOT WATERS OF THE U.S.**

- STATION NUMBER LOCATION
- ↑ DIRECTION OF FLOW
- ▭ PROPOSED GRADING LIMITS
- +— EXISTING TRACK
- +—+— PROPOSED TRACK
- — — EXISTING RIGHT-OF-WAY
- · — · — PROPOSED RIGHT-OF-WAY
- ▭ EXISTING CULVERTS
- ▭ PROPOSED CULVERTS
- ▭ EXISTING BRIDGE
- ▭ PROPOSED BRIDGE
- ▭ HIGH BANK
- ▭ LOW BANK
- — — EXISTING DITCH
- · — · — PROPOSED DITCH
- — — SECTION LINES

**WATERS OF THE U.S.**

- · — · — STREAM
- ▨ FORESTED WETLAND
- ▨ NON-FORESTED WETLAND
- ▨ WETLAND IMPACT

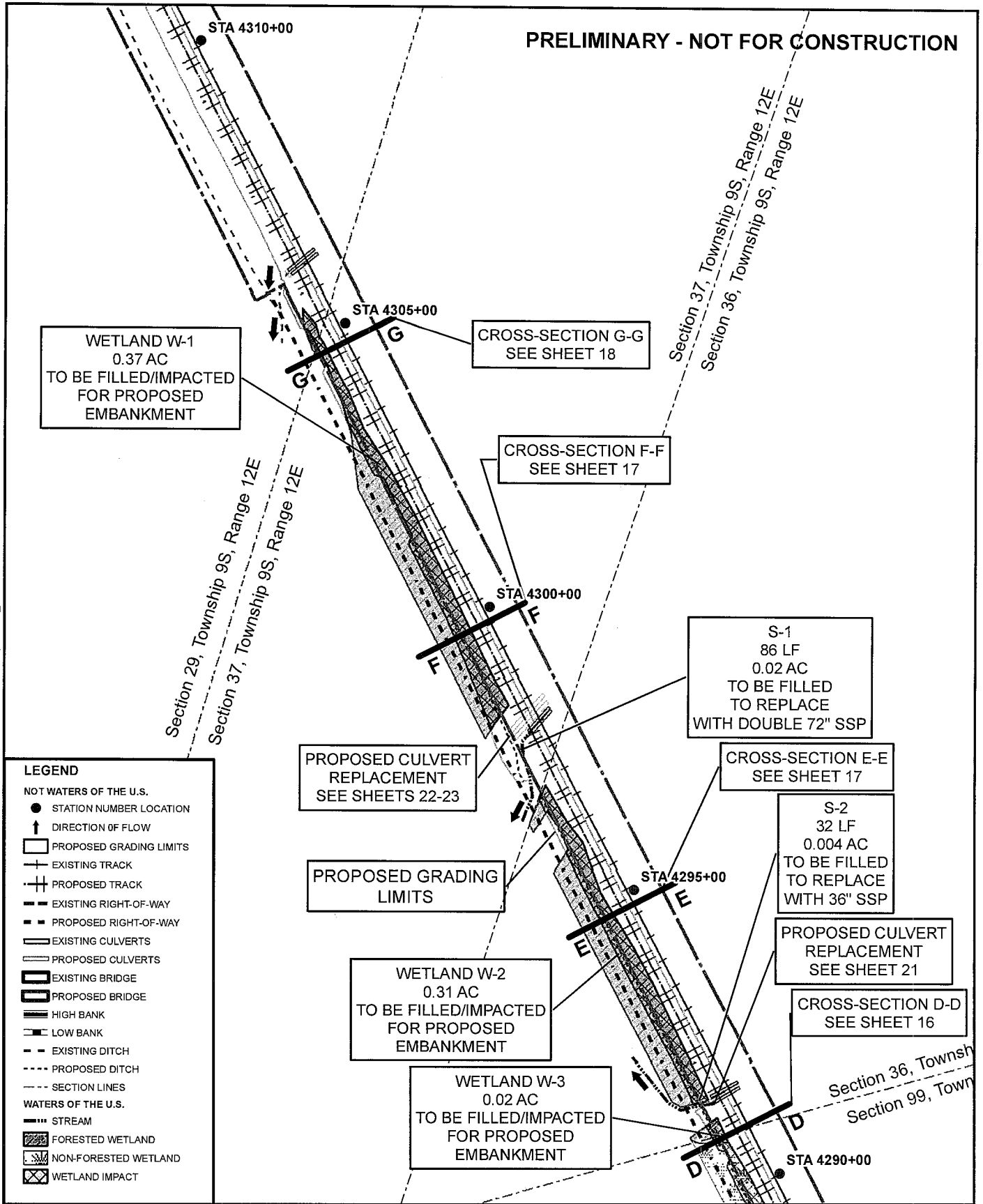
**PLAQUEMINE MAINLINE REALIGNMENT DESIGN EXHIBITS**



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972-960-4400

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PRELIMINARY - NOT FOR CONSTRUCTION



**LEGEND**

**NOT WATERS OF THE U.S.**

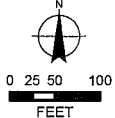
- STATION NUMBER LOCATION
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- PROPOSED GRADING LIMITS
- +— EXISTING TRACK
- +— PROPOSED TRACK
- - - EXISTING RIGHT-OF-WAY
- - - PROPOSED RIGHT-OF-WAY
- ▭ EXISTING CULVERTS
- ▭ PROPOSED CULVERTS
- ▭ EXISTING BRIDGE
- ▭ PROPOSED BRIDGE
- ▭ HIGH BANK
- ▭ LOW BANK
- - - EXISTING DITCH
- - - PROPOSED DITCH
- - - SECTION LINES

**WATERS OF THE U.S.**

- ▭ STREAM
- ▭ FORESTED WETLAND
- ▭ NON-FORESTED WETLAND
- ▭ WETLAND IMPACT

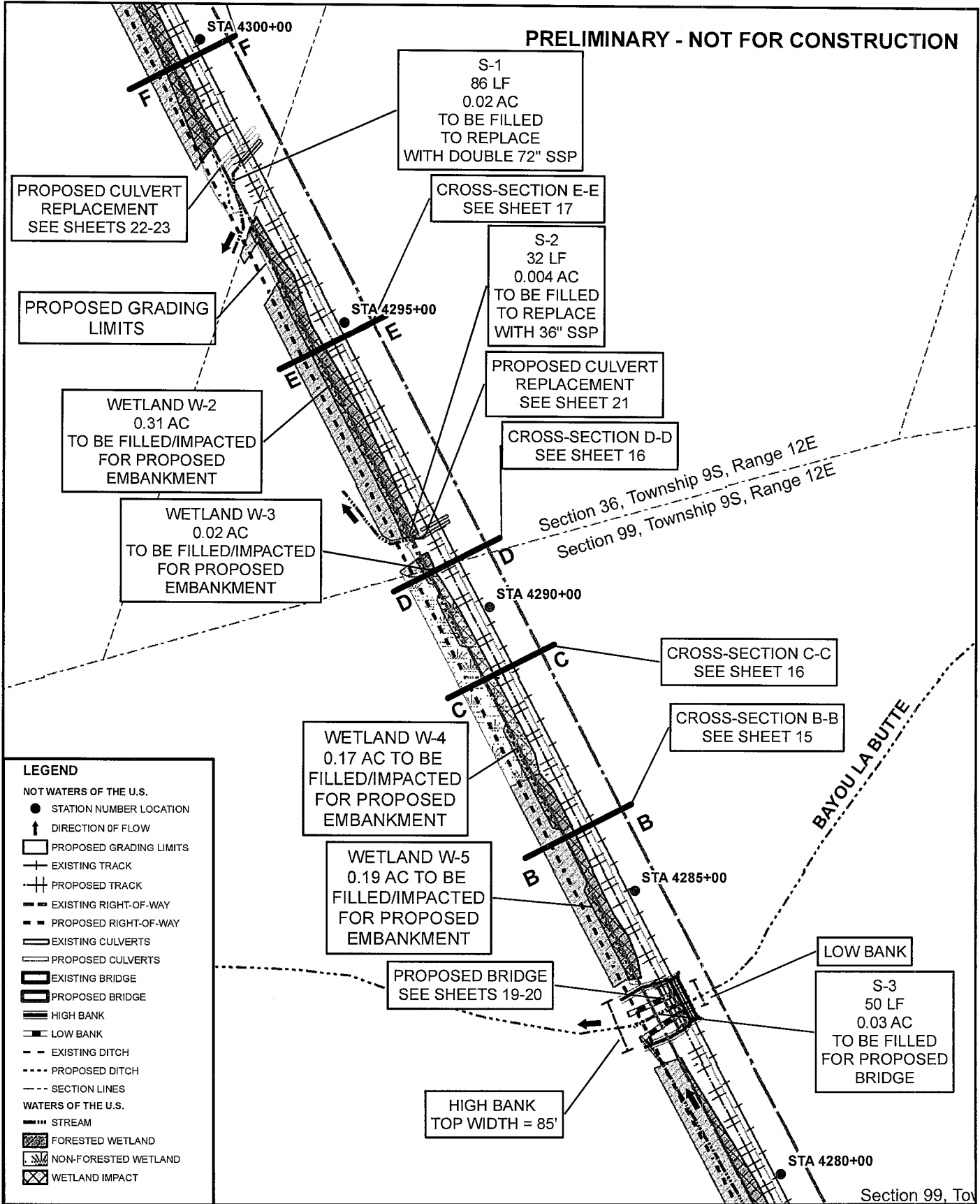
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**PLAQUEMINE MAINLINE REALIGNMENT DESIGN EXHIBITS**



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**PRELIMINARY - NOT FOR CONSTRUCTION**



**LEGEND**

**NOT WATERS OF THE U.S.**

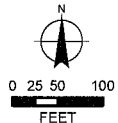
- STATION NUMBER LOCATION
- ↑ DIRECTION OF FLOW
- PROPOSED GRADING LIMITS
- +— EXISTING TRACK
- +— PROPOSED TRACK
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- — — PROPOSED RIGHT-OF-WAY
- — — EXISTING CULVERTS
- — — PROPOSED CULVERTS
- — — EXISTING BRIDGE
- — — PROPOSED BRIDGE
- — — HIGH BANK
- — — LOW BANK
- — — EXISTING DITCH
- — — PROPOSED DITCH
- — — SECTION LINES

**WATERS OF THE U.S.**

- — — STREAM
- ▨ FORESTED WETLAND
- ▤ NON-FORESTED WETLAND
- ▧ WETLAND IMPACT

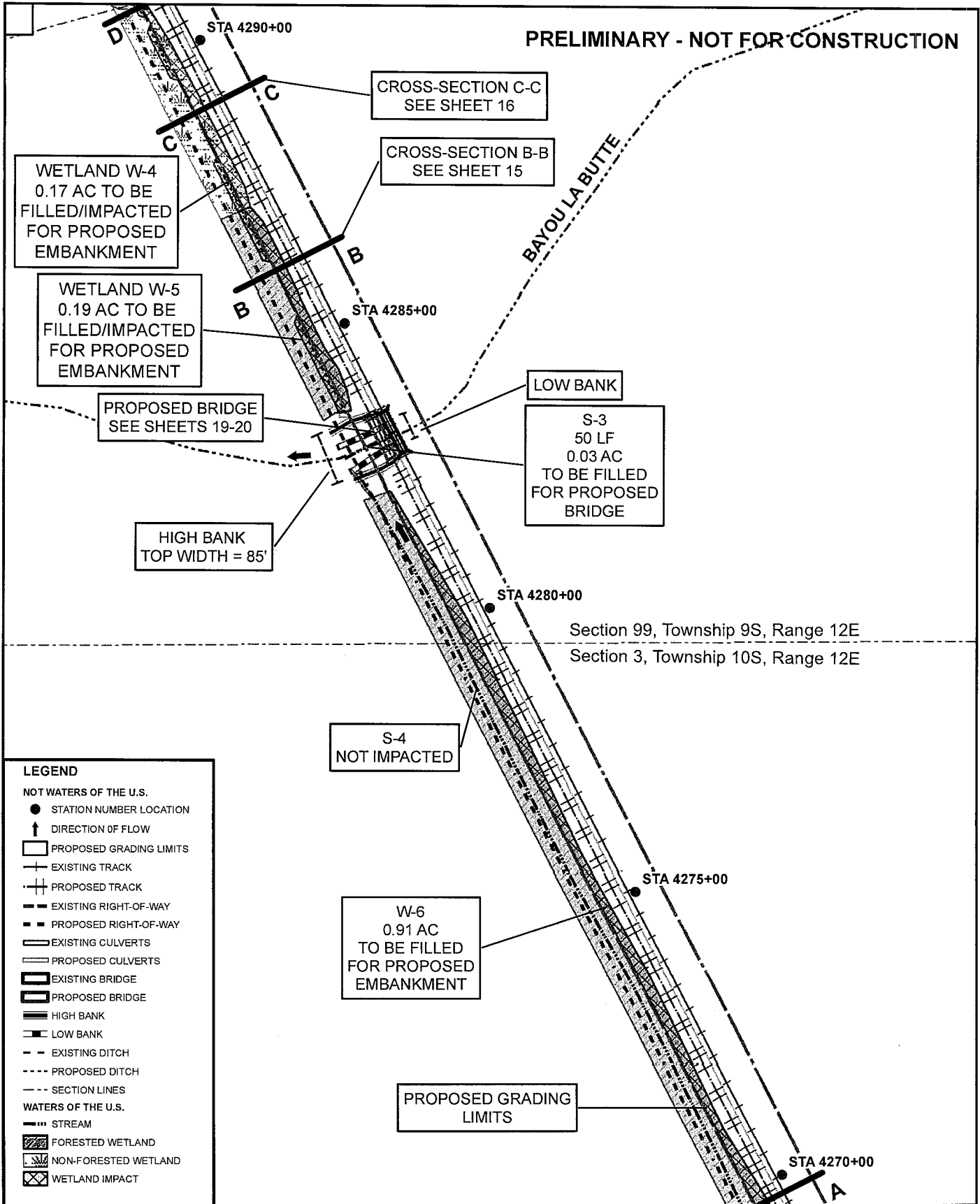
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**PLAQUEMINE MAINLINE REALIGNMENT DESIGN EXHIBITS**



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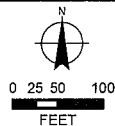
PRELIMINARY - NOT FOR CONSTRUCTION



LEGEND	
NOT WATERS OF THE U.S.	
●	STATION NUMBER LOCATION
↑	DIRECTION OF FLOW
□	PROPOSED GRADING LIMITS
+	EXISTING TRACK
+	PROPOSED TRACK
---	EXISTING RIGHT-OF-WAY
---	PROPOSED RIGHT-OF-WAY
▭	EXISTING CULVERTS
▭	PROPOSED CULVERTS
▭	EXISTING BRIDGE
▭	PROPOSED BRIDGE
▭	HIGH BANK
▭	LOW BANK
---	EXISTING DITCH
---	PROPOSED DITCH
---	SECTION LINES
WATERS OF THE U.S.	
▭	STREAM
▭	FORESTED WETLAND
▭	NON-FORESTED WETLAND
▭	WETLAND IMPACT

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**PLAQUEMINE MAINLINE  
REALIGNMENT  
DESIGN EXHIBITS**



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SHEET 6 OF 23

**PRELIMINARY - NOT FOR CONSTRUCTION**

Section 99, Township 9S, Range 12E

Section 3, Township 10S, Range 12E

S-4  
NOT IMPACTED

W-6  
0.91 AC  
TO BE FILLED  
FOR PROPOSED  
EMBANKMENT

PROPOSED GRADING  
LIMITS

CROSS-SECTION A-A  
SEE SHEET 15

**LEGEND**

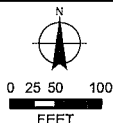
**NOT WATERS OF THE U.S.**

- STATION NUMBER LOCATION
- ↑ DIRECTION OF FLOW
- PROPOSED GRADING LIMITS
- +— EXISTING TRACK
- +—+— PROPOSED TRACK
- +—+— EXISTING RIGHT-OF-WAY
- +—+— PROPOSED RIGHT-OF-WAY
- +—+— EXISTING CULVERTS
- +—+— PROPOSED CULVERTS
- +—+— EXISTING BRIDGE
- +—+— PROPOSED BRIDGE
- +—+— HIGH BANK
- +—+— LOW BANK
- +—+— EXISTING DITCH
- +—+— PROPOSED DITCH
- +—+— SECTION LINES

**WATERS OF THE U.S.**

- +—+— STREAM
- +—+— FORESTED WETLAND
- +—+— NON-FORESTED WETLAND
- +—+— WETLAND IMPACT

**PLAQUEMINE MAINLINE  
REALIGNMENT  
DESIGN EXHIBITS**



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972-960-4400

DEC 2011

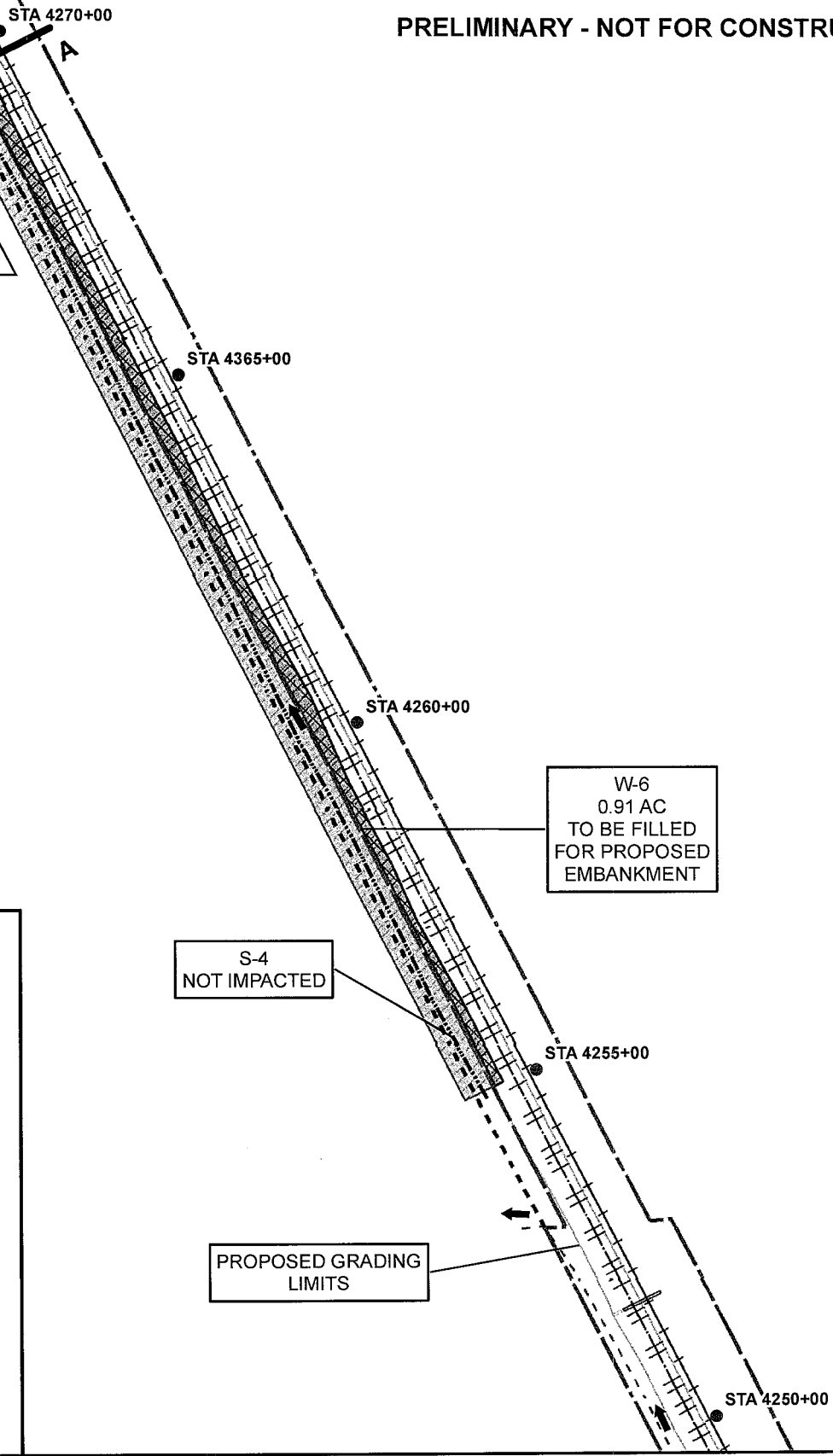
SHEET 7 OF 23

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PRELIMINARY - NOT FOR CONSTRUCTION

Section 3, Township 10S, Range 12E

CROSS-SECTION A-A  
SEE SHEET 15



**LEGEND**

**NOT WATERS OF THE U.S.**

- STATION NUMBER LOCATION
- ↑ DIRECTION OF FLOW
- PROPOSED GRADING LIMITS
- +— EXISTING TRACK
- +— PROPOSED TRACK
- +— EXISTING RIGHT-OF-WAY
- +— PROPOSED RIGHT-OF-WAY
- +— EXISTING CULVERTS
- +— PROPOSED CULVERTS
- +— EXISTING BRIDGE
- +— PROPOSED BRIDGE
- +— HIGH BANK
- +— LOW BANK
- +— EXISTING DITCH
- +— PROPOSED DITCH
- +— SECTION LINES

**WATERS OF THE U.S.**

- +— STREAM
- +— FORESTED WETLAND
- +— NON-FORESTED WETLAND
- +— WETLAND IMPACT

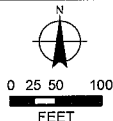
S-4  
NOT IMPACTED

W-6  
0.91 AC  
TO BE FILLED  
FOR PROPOSED  
EMBANKMENT

PROPOSED GRADING  
LIMITS

Path: O:\Dept037\_DallasEngineering\EnvSciences\169587-134\_UPRR\_Plaquimine\_ML\_Realignment\MapDocs\arcmap\Plaquimine\_RR\_USACE\_8x11.mxd

**PLAQUEMINE MAINLINE  
REALIGNMENT  
DESIGN EXHIBITS**



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DEC 2011

SHEET 8 OF 23

PRELIMINARY - NOT FOR CONSTRUCTION

Section 3, Township 10S, Range 12E

S-4  
NOT IMPACTED

W-6  
0.91 AC  
TO BE FILLED  
FOR PROPOSED  
EMBANKMENT

PROPOSED GRADING  
LIMITS

EXISTING DITCH  
OUTSIDE GRADING  
LIMITS

STA 4260+00

STA 4255+00

STA 4250+00

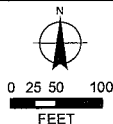
STA 4245+00

STA 4240+00

**LEGEND**

- NOT WATERS OF THE U.S.**
- STATION NUMBER LOCATION
  - ↑ DIRECTION OF FLOW
  - PROPOSED GRADING LIMITS
  - +— EXISTING TRACK
  - +— PROPOSED TRACK
  - - - EXISTING RIGHT-OF-WAY
  - - - PROPOSED RIGHT-OF-WAY
  - |— EXISTING CULVERTS
  - |— PROPOSED CULVERTS
  - |— EXISTING BRIDGE
  - |— PROPOSED BRIDGE
  - |— HIGH BANK
  - |— LOW BANK
  - - - EXISTING DITCH
  - - - PROPOSED DITCH
  - - - SECTION LINES
- WATERS OF THE U.S.**
- |— STREAM
  - ▨ FORESTED WETLAND
  - ▩ NON-FORESTED WETLAND
  - ▩ WETLAND IMPACT

**PLAQUEMINE MAINLINE  
REALIGNMENT  
DESIGN EXHIBITS**



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SHEET 9 OF 23

Path: C:\Depto37\_DallasEngineering\EnvSciences\169587-134\_UPRR\_Plaquimine\_ML\_Realignment\MapDocs\arcmap\Plaquimine\_RR\_USACE\_8x11.mxd

PRELIMINARY - NOT FOR CONSTRUCTION

EXISTING DITCH  
OUTSIDE GRADING  
LIMITS

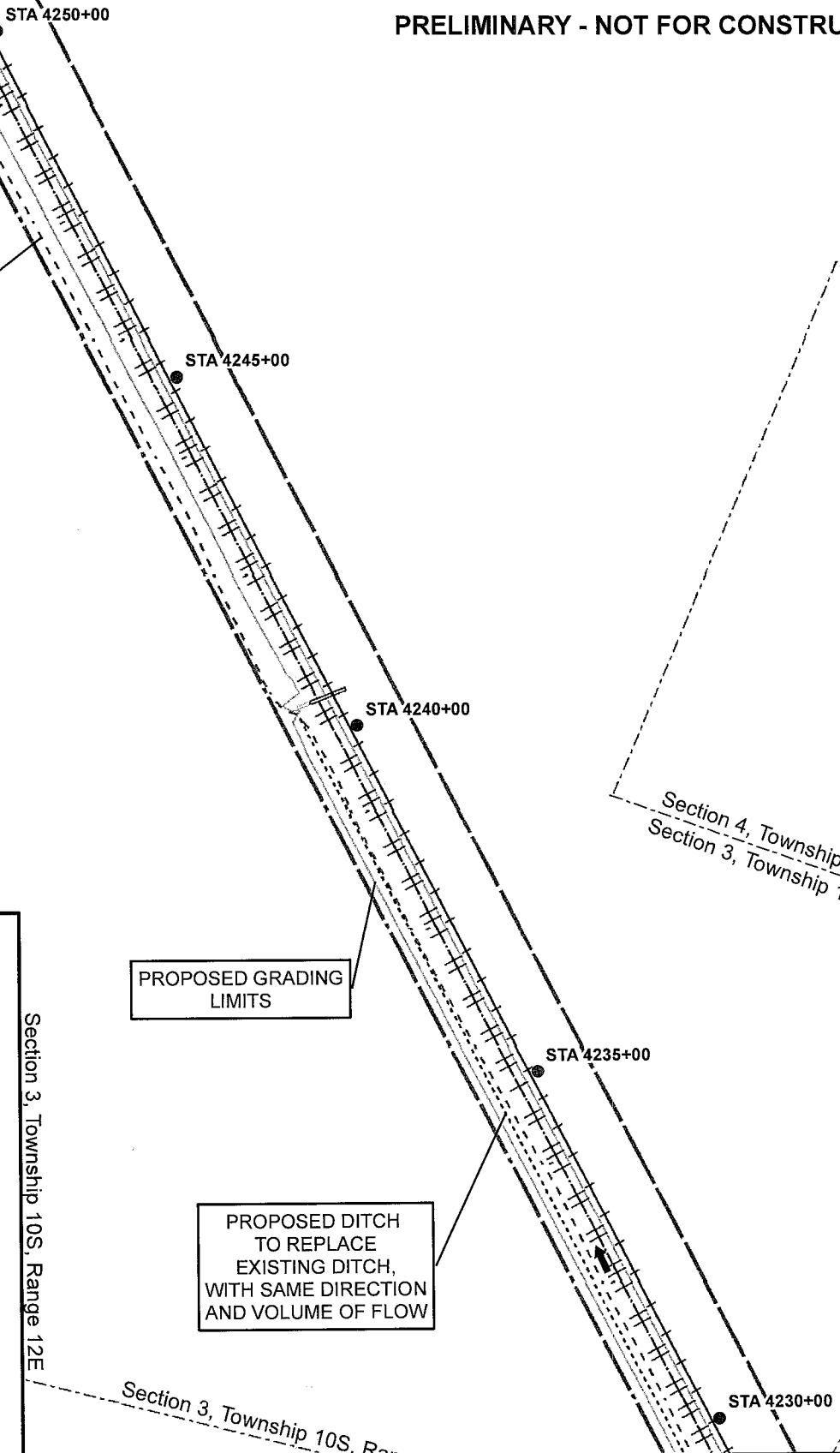
PROPOSED GRADING  
LIMITS

PROPOSED DITCH  
TO REPLACE  
EXISTING DITCH,  
WITH SAME DIRECTION  
AND VOLUME OF FLOW

Section 4, Township 10S, Range  
Section 3, Township 10S, Range

Section 3, Township 10S, Range 12E

Section 3, Township 10S, Range

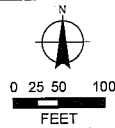


**LEGEND**

- NOT WATERS OF THE U.S.**
- STATION NUMBER LOCATION
  - ↑ DIRECTION OF FLOW
  - PROPOSED GRADING LIMITS
  - +— EXISTING TRACK
  - +—+— PROPOSED TRACK
  - - - EXISTING RIGHT-OF-WAY
  - - - PROPOSED RIGHT-OF-WAY
  - |— EXISTING CULVERTS
  - |— PROPOSED CULVERTS
  - |— EXISTING BRIDGE
  - |— PROPOSED BRIDGE
  - |— HIGH BANK
  - |— LOW BANK
  - - - EXISTING DITCH
  - - - PROPOSED DITCH
  - - - SECTION LINES
- WATERS OF THE U.S.**
- |— STREAM
  - ▨ FORESTED WETLAND
  - ▩ NON-FORESTED WETLAND
  - ▧ WETLAND IMPACT

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**PLAQUEMINE MAINLINE  
REALIGNMENT  
DESIGN EXHIBITS**



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DEC 2011

SHEET 10 OF 23

PRELIMINARY - NOT FOR CONSTRUCTION

Section 4, Township 10S, Range 12E  
 Section 3, Township 10S, Range 12E

PROPOSED GRADING LIMITS

PROPOSED DITCH TO REPLACE EXISTING DITCH, WITH SAME DIRECTION AND VOLUME OF FLOW

STA 4235+00

STA 4230+00

Section 3, Township 10S, Range 12E

Section 5, Township 10S, Range 12E  
 Section 6, Township 10S, Range 12E

STA 4225+00

PROPOSED DITCH TO REPLACE EXISTING DITCH WITH SAME DIRECTION AND VOLUME OF FLOW

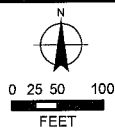
Section 6, Township 10S, Range 12E  
 Section 7, Township 10S, Range 12E

STA 4220+00

**LEGEND**

- NOT WATERS OF THE U.S.**
- STATION NUMBER LOCATION
  - ↑ DIRECTION OF FLOW
  - PROPOSED GRADING LIMITS
  - +— EXISTING TRACK
  - +— PROPOSED TRACK
  - EXISTING RIGHT-OF-WAY
  - PROPOSED RIGHT-OF-WAY
  - EXISTING CULVERTS
  - PROPOSED CULVERTS
  - EXISTING BRIDGE
  - PROPOSED BRIDGE
  - HIGH BANK
  - LOW BANK
  - EXISTING DITCH
  - PROPOSED DITCH
  - SECTION LINES
- WATERS OF THE U.S.**
- STREAM
  - ▨ FORESTED WETLAND
  - ▨ NON-FORESTED WETLAND
  - ▨ WETLAND IMPACT

**PLAQUEMINE MAINLINE REALIGNMENT DESIGN EXHIBITS**



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SHEET 11 OF 23

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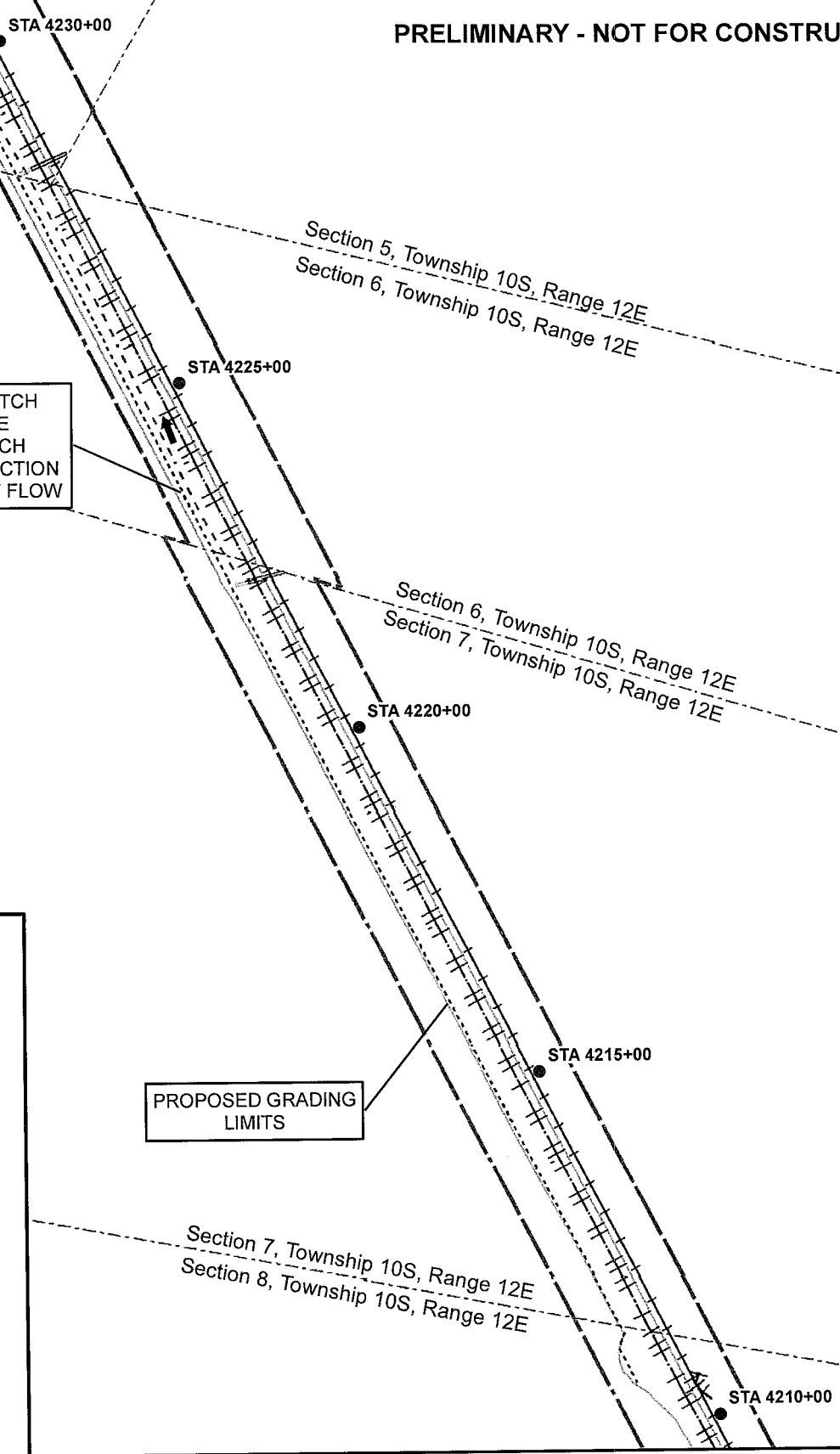
Section 5, Township 10S, Range 12E  
Section 6, Township 10S, Range 12E

Section 6, Township 10S, Range 12E  
Section 7, Township 10S, Range 12E

Section 7, Township 10S, Range 12E  
Section 8, Township 10S, Range 12E

PROPOSED DITCH  
TO REPLACE  
EXISTING DITCH  
WITH SAME DIRECTION  
AND VOLUME OF FLOW

PROPOSED GRADING  
LIMITS

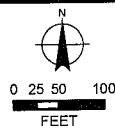


**LEGEND**

- NOT WATERS OF THE U.S.
- STATION NUMBER LOCATION
- ↑ DIRECTION OF FLOW
- PROPOSED GRADING LIMITS
- +— EXISTING TRACK
- +— PROPOSED TRACK
- +— EXISTING RIGHT-OF-WAY
- +— PROPOSED RIGHT-OF-WAY
- +— EXISTING CULVERTS
- +— PROPOSED CULVERTS
- +— EXISTING BRIDGE
- +— PROPOSED BRIDGE
- +— HIGH BANK
- +— LOW BANK
- +— EXISTING DITCH
- +— PROPOSED DITCH
- +— SECTION LINES
- WATERS OF THE U.S.
- +— STREAM
- ▨ FORESTED WETLAND
- ▨ NON-FORESTED WETLAND
- ▨ WETLAND IMPACT

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**PLAQUEMINE MAINLINE  
REALIGNMENT  
DESIGN EXHIBITS**



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SHEET 12 OF 23

PRELIMINARY - NOT FOR CONSTRUCTION

Section 64, Township 10S, Range 12E

Section 65, Township 10S, Range 12E

Section 7, Township 10S, Range 12E  
 Section 8, Township 10S, Range 12E

STA 4220+00

STA 4215+00

STA 4210+00

STA 4205+00

STA 4200+00

PROPOSED GRADING LIMITS

EXISTING DITCH OUTSIDE GRADING LIMITS

S-5 NOT IMPACTED

**LEGEND**

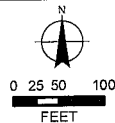
**NOT WATERS OF THE U.S.**

- STATION NUMBER LOCATION
- ↑ DIRECTION OF FLOW
- PROPOSED GRADING LIMITS
- EXISTING TRACK
- +— PROPOSED TRACK
- - - EXISTING RIGHT-OF-WAY
- - - PROPOSED RIGHT-OF-WAY
- EXISTING CULVERTS
- PROPOSED CULVERTS
- EXISTING BRIDGE
- PROPOSED BRIDGE
- HIGH BANK
- LOW BANK
- - - EXISTING DITCH
- - - PROPOSED DITCH
- - - SECTION LINES

**WATERS OF THE U.S.**

- STREAM
- ▨ FORESTED WETLAND
- ▧ NON-FORESTED WETLAND
- ▩ WETLAND IMPACT

**PLAQUEMINE MAINLINE REALIGNMENT DESIGN EXHIBITS**



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 972-960-4400

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SHEET 13 OF 23

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PRELIMINARY - NOT FOR CONSTRUCTION

Section 65, Township 10S, Range 12E

Section 8, Township 10S, Range 12E

LAT: 30.216  
LONG: -91.1918

EXISTING DITCH  
OUTSIDE GRADING  
LIMITS

S-5  
NOT IMPACTED

STA 4210+00

STA 4205+00

STA 4200+00

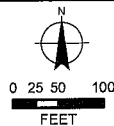
STA 4195+00

STA 4190+00

**LEGEND**

- NOT WATERS OF THE U.S.**
- STATION NUMBER LOCATION
  - ↑ DIRECTION OF FLOW
  - PROPOSED GRADING LIMITS
  - +— EXISTING TRACK
  - +— PROPOSED TRACK
  - - - EXISTING RIGHT-OF-WAY
  - - - PROPOSED RIGHT-OF-WAY
  - |— EXISTING CULVERTS
  - |— PROPOSED CULVERTS
  - |— EXISTING BRIDGE
  - |— PROPOSED BRIDGE
  - |— HIGH BANK
  - |— LOW BANK
  - - - EXISTING DITCH
  - - - PROPOSED DITCH
  - - - SECTION LINES
- WATERS OF THE U.S.**
- |— STREAM
  - ▨ FORESTED WETLAND
  - ▩ NON-FORESTED WETLAND
  - ▩ WETLAND IMPACT

**PLAQUEMINE MAINLINE  
REALIGNMENT  
DESIGN EXHIBITS**

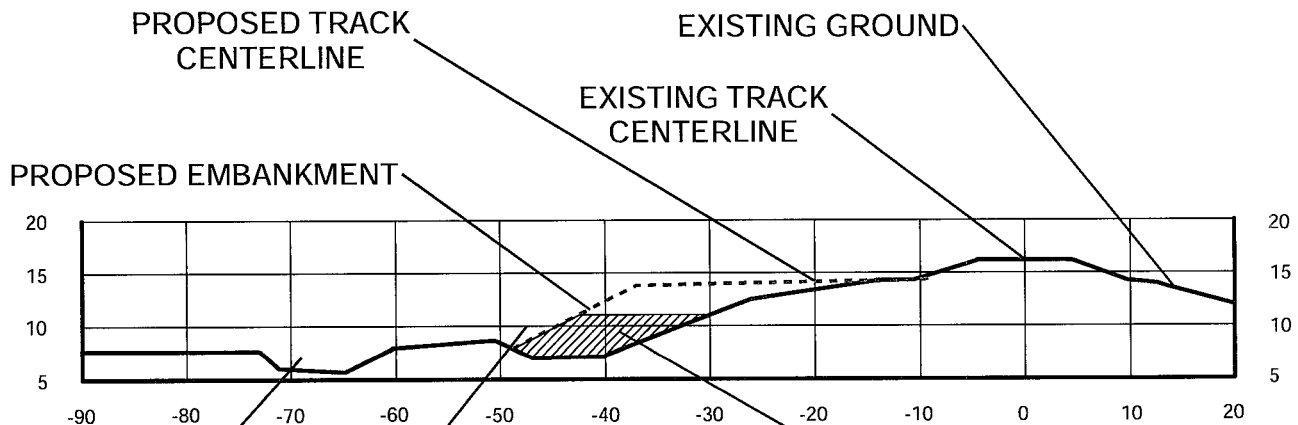


**HDR** HDR Engineering, Inc.  
17111 Preston Rd, Suite 200  
Dallas, TX 75248-1232  
972-960-4400

DEC 2011

SHEET 14 OF 23

Path: O:\Dept037\_Dallas\Engineering\Env\Sciences\169587-134\_U\PRR\_Plaquemine\_ML\_Realignment\MapDocs\arcmap\Plaquemine\_RR\_USACE\_8x11.mxd

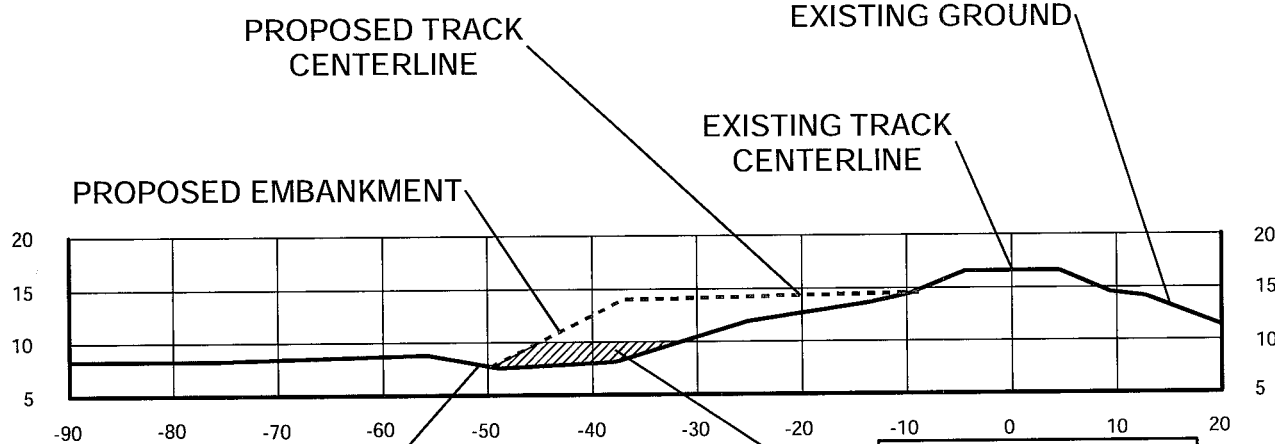


S-4  
NOT IMPACTED

NO DITCH NEEDED BASED ON  
DRAINAGE CONDITIONS

CROSS SECTION A-A

W-6  
0.91 AC  
TO BE FILLED/IMPACTED  
FOR PROPOSED  
EMBANKMENT



NO DITCH NEEDED BASED ON  
DRAINAGE CONDITIONS

CROSS SECTION B-B

WETLAND W-5  
0.19 AC  
TO BE FILLED/IMPACTED  
FOR PROPOSED  
EMBANKMENT

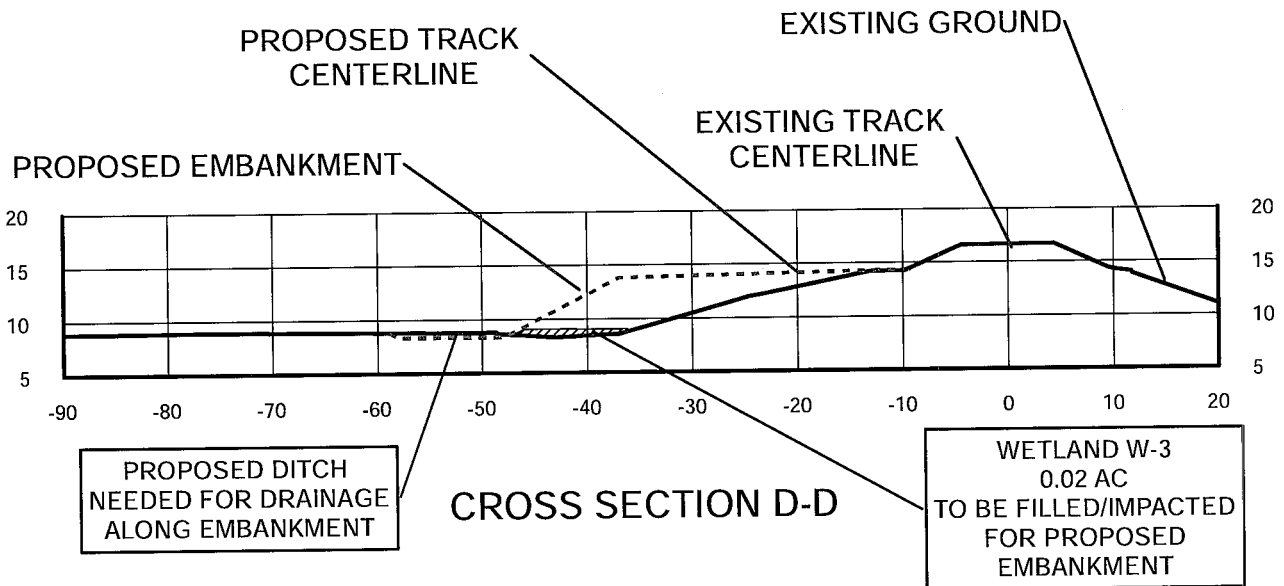
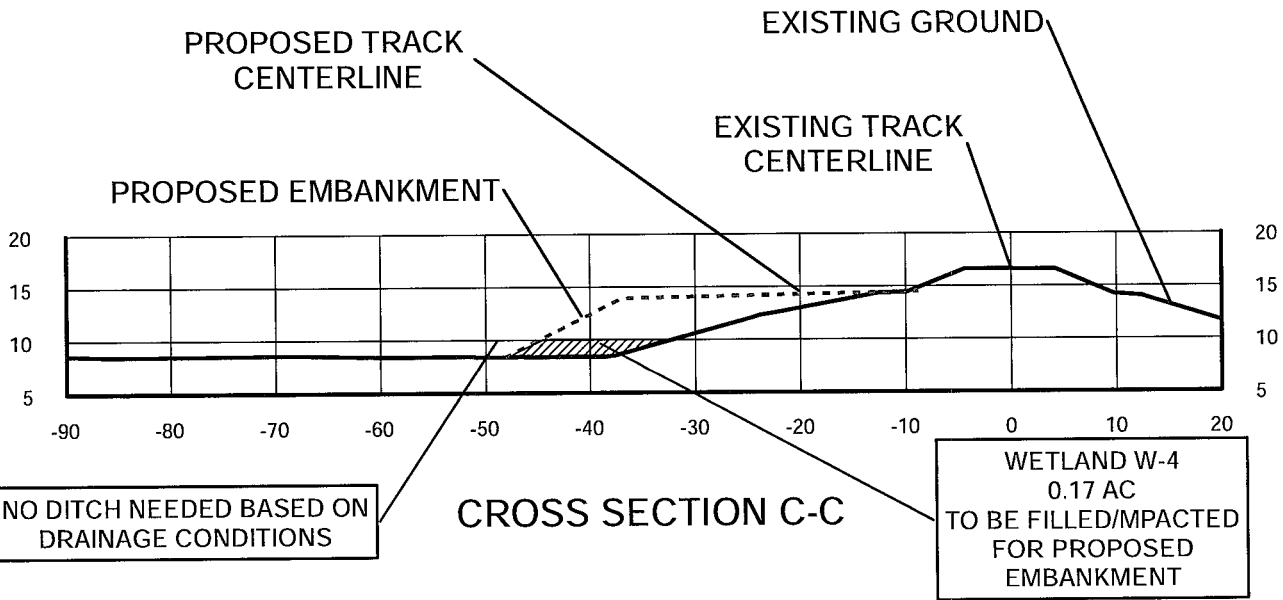
Legend

- PROPOSED GRADE/GROUND
- ▨ WETLAND FILL



Path: O:\Dept037\_DallasEngineering\EnvSciences\169587-134\_UPRR\_Plaquimine\_ML\_Realignment\MapDocs\arcmap\Plaquimine\_RR\_CrossSection4270\_4286\_8x11.mxd

PRELIMINARY - NOT FOR CONSTRUCTION



**Legend**

- PROPOSED GRADE/GROUND
- ▨ WETLAND FILL

PLAQUEMINE MAINLINE REALIGNMENT DESIGN EXHIBITS

SEE LABELS ON GRID ABOVE FOR MEASUREMENTS IN FEET



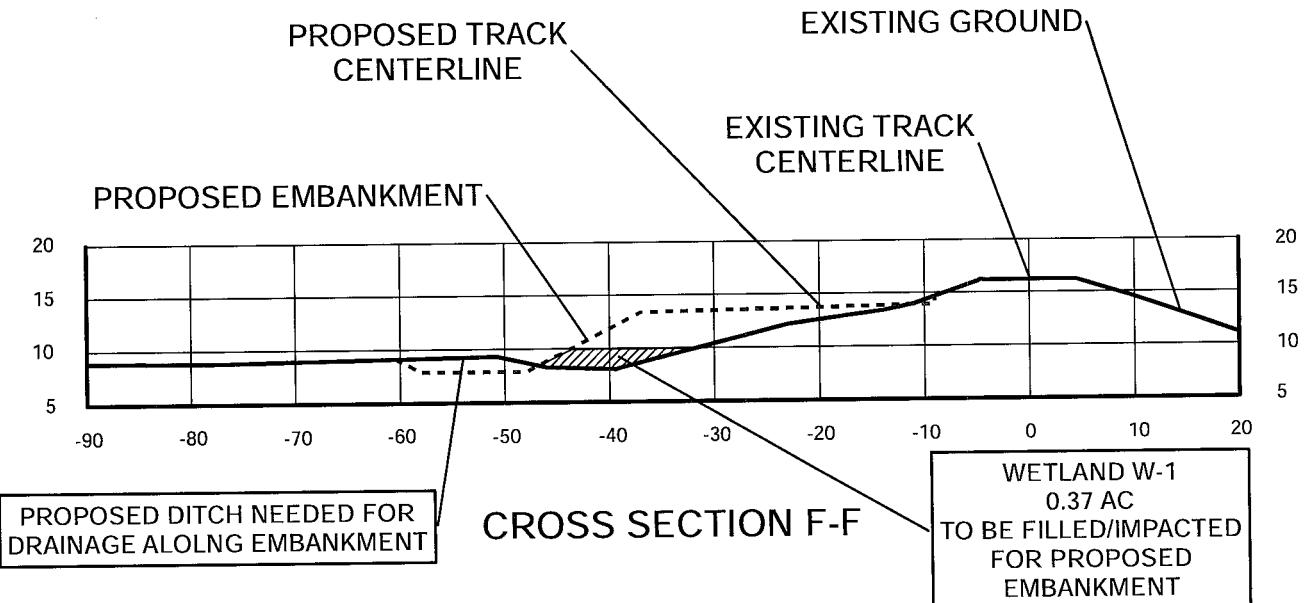
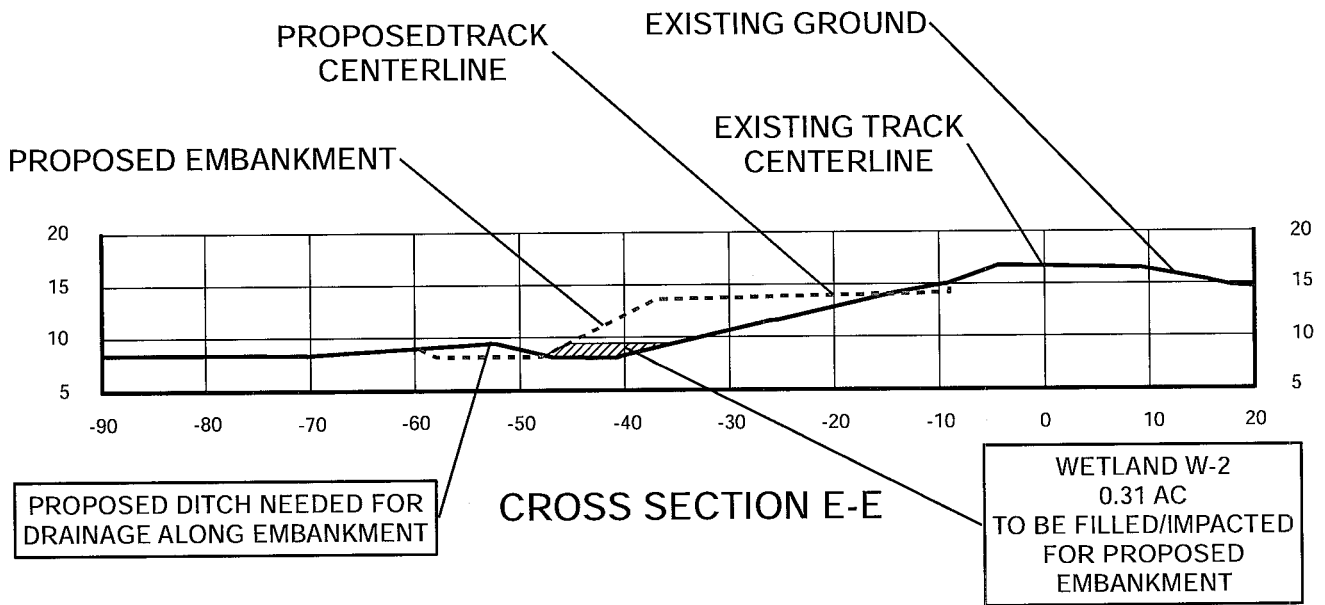
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Dallas, TX 75248-1232  
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Path: O:\Dept037\_DallasEngineering\EnvSciences\169587-134\_UPRR\_Plaquimine\_ML\_Realignment\MapDocs\arcmap\Plaquimine\_RR\_CrossSection4289\_4291\_8x11.mxd

PRELIMINARY - NOT FOR CONSTRUCTION



**Legend**

- - - PROPOSED GRADE/GROUND
- ▨ WETLAND FILL

Path: O:\Dept037\_DallasEngineering\EnvSciences\169587-134\_UPRR\_Plaquimine\_ML\_Realignment\MapDocs\arcmap\Plaquimine\_RR\_CrossSection4295\_4300\_8x11.mxd

PLAQUEMINE MAINLINE REALIGNMENT DESIGN EXHIBITS

SEE LABELS ON GRID ABOVE FOR MEASUREMENTS IN FEET



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DEC 2011 SHEET 17 OF 23

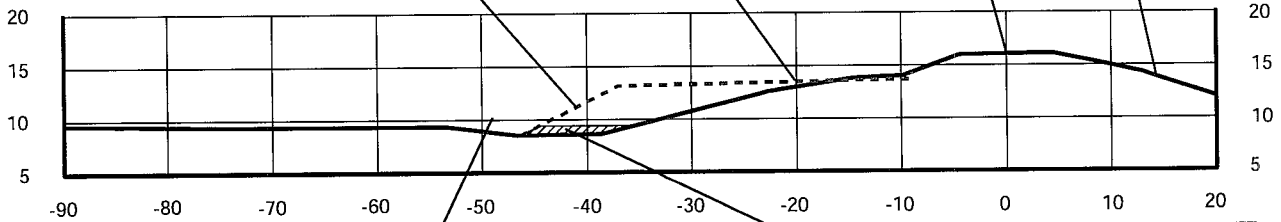
PRELIMINARY - NOT FOR CONSTRUCTION

PROPOSED TRACK CENTERLINE

EXISTING GROUND

EXISTING TRACK CENTERLINE

PROPOSED EMBANKMENT



CROSS SECTION G-G

NO DITCH NEEDED BASED ON DRAINAGE CONDITIONS

WETLAND W-1  
0.37 AC  
TO BE FILLED/IMPACTED  
FOR PROPOSED  
EMBANKMENT

Legend

- PROPOSED GRADE/GROUND
- WETLAND FILL

Path: O:\Dept037\_DallasEngineering\EnvSciences\169587-134\_UJPRR\_Plaquimine\_ML\_Realignment\MapDocs\arcmap\Plaquimine\_RR\_CrossSection\305\_8x11.mxd

PLAQUEMINE MAINLINE  
REALIGNMENT  
DESIGN EXHIBITS

SEE LABELS ON  
GRID ABOVE FOR  
MEASUREMENTS  
IN FEET

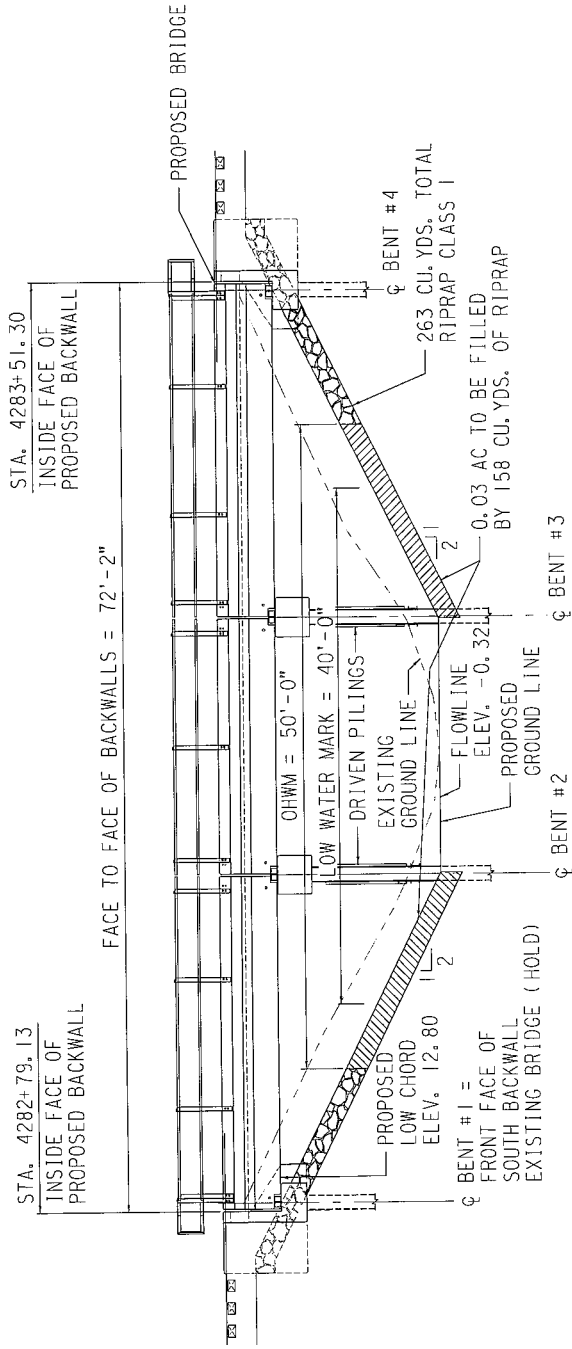


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SHEET 18 OF 23





$WSE_{50} = 11.7$   
 $EGL_{100} = 13.1$   
 $VEL_{100} = 6.7 \text{ fps}$   
 (NO CHANGE IN HYDROLOGY)

**SECTION**



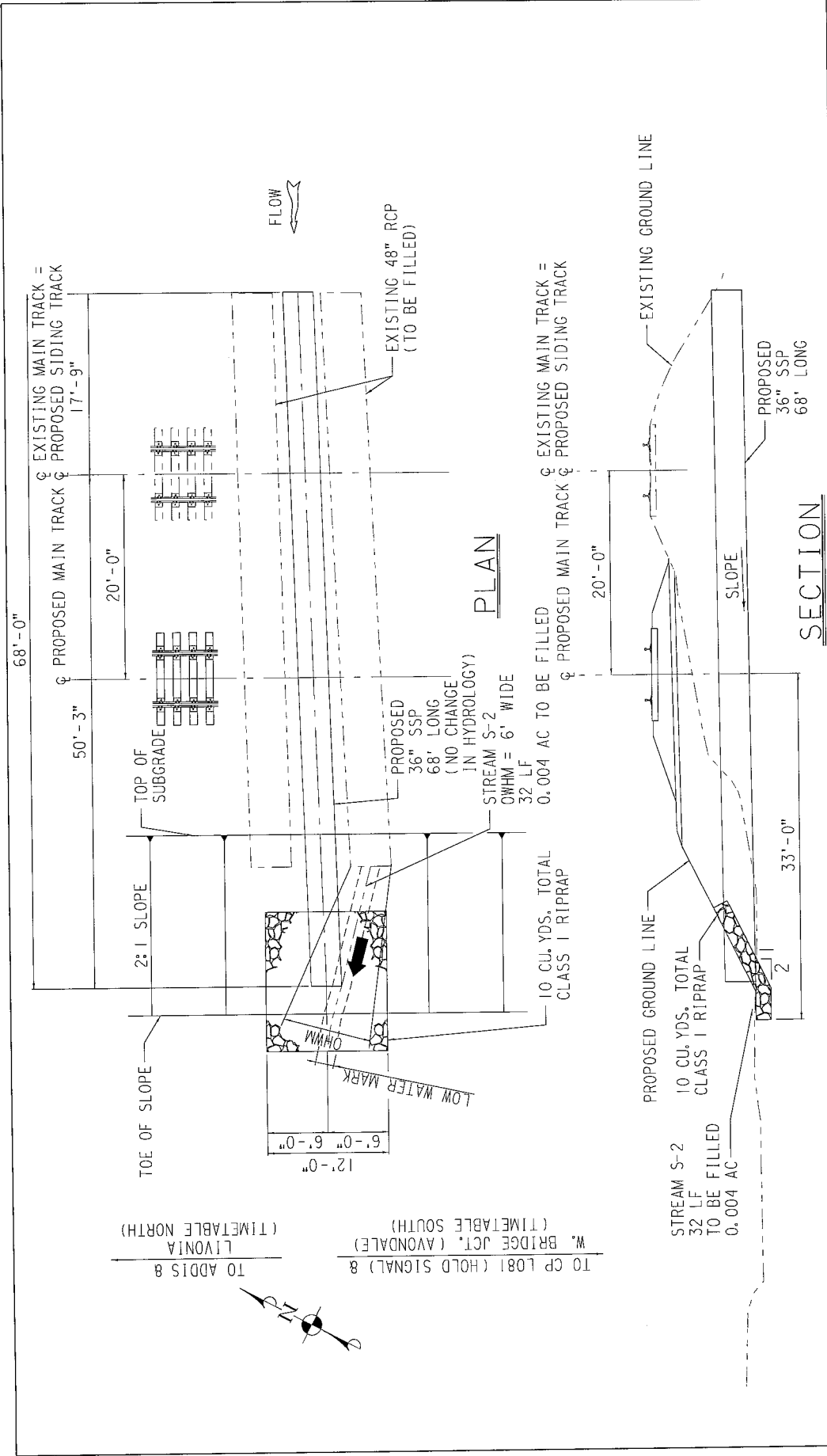
PLAQUEMINE MAINLINE REALIGNMENT

BAYOU LA BUTTE BRIDGE DESIGN

DECEMBER 2011

**SHEET 20 OF 23**

**PRELIMINARY**  
NOT FOR CONSTRUCTION



TO CP L081 (HOLD SIGNAL) & W. BRIDGE JCT. (AVONDALE) LIVONIA (TIMETABLE SOUTH)

TO ADDIS & LIVONIA (TIMETABLE NORTH)



**PRELIMINARY**  
NOT FOR CONSTRUCTION

SHEET 21 OF 23

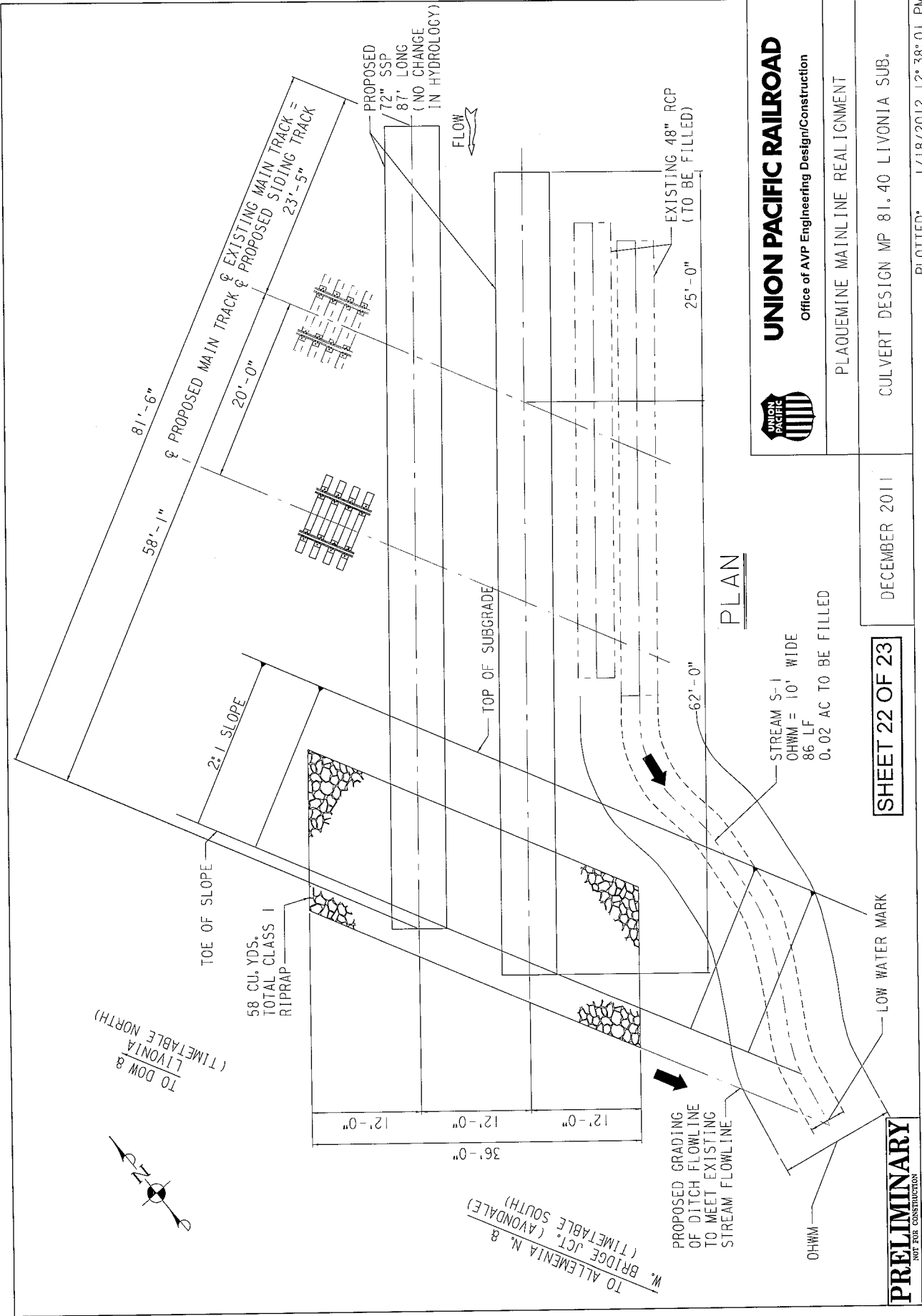
DECEMBER 2011

CULVERT DESIGN MP 81.24 LIVONIA SUB.

PLAQUEMINE MAINLINE REALIGNMENT



**UNION PACIFIC RAILROAD**  
Office of AVP Engineering Design/Construction



PLAN



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PLAQUEMINE MAINLINE REALIGNMENT

DECEMBER 2011

**SHEET 22 OF 23**

**PRELIMINARY**  
NOT FOR CONSTRUCTION

CULVERT DESIGN MP 81.40 LIVONIA SUB.

PLOTTED: 1/18/2012 12:38:01 PM

PROPOSED  
72" SSP  
87' LONG  
(NO CHANGE  
IN HYDROLOGY)



EXISTING 48" RCP  
(TO BE FILLED)

TOP OF SUBGRADE

STREAM S-1  
OHWM = 10' WIDE  
86 LF  
0.02 AC TO BE FILLED

LOW WATER MARK

PROPOSED GRADING  
OF DITCH FLOWLINE  
TO MEET EXISTING  
STREAM FLOWLINE

TO DOW &  
LIVONIA  
(TIMETABLE NORTH)

TO ALLEMENIA N. &  
W. BRIDGE JCT. (AVONDALE)  
(TIMETABLE SOUTH)

58 CU. YDS.  
TOTAL CLASS I  
RIPRAP

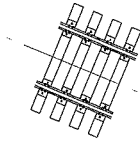
TOE OF SLOPE  
2:1 SLOPE

81'-6"

58'-1"

PROPOSED MAIN TRACK &  
EXISTING MAIN TRACK =  
PROPOSED SIDING TRACK

20'-0"



23'-5"

12'-0"

12'-0"

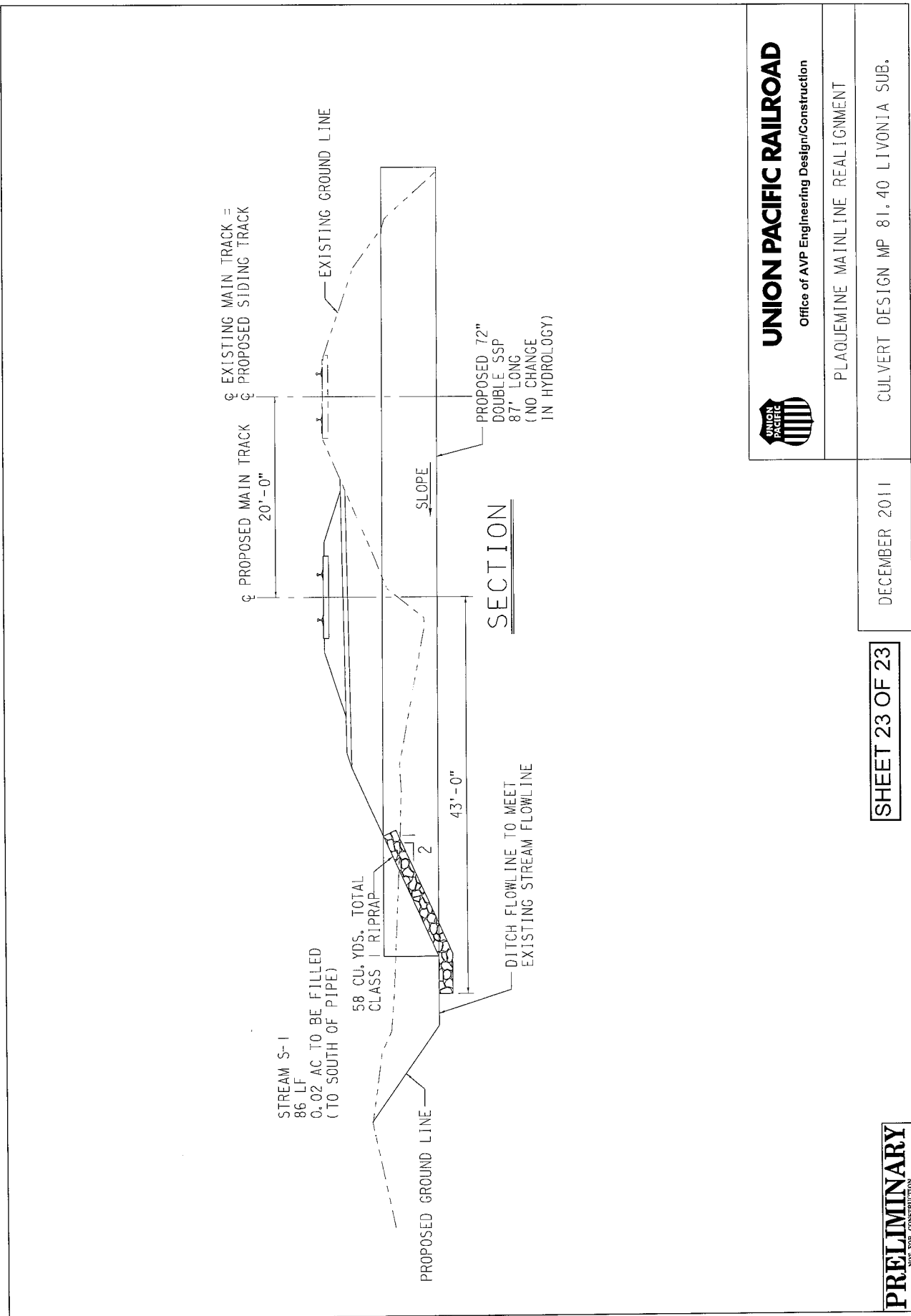
36'-0"

12'-0"

12'-0"

62'-0"

25'-0"



**PRELIMINARY**  
NOT FOR CONSTRUCTION

**SHEET 23 OF 23**

DECEMBER 2011

CULVERT DESIGN MP 81.40 LIVONIA SUB.

PLAQUEMINE MAINLINE REALIGNMENT



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Office of AVP Engineering Design/Construction

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